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DESCRIPTORS: *Gas turbine blades, Materials, Surfaces, Spectrographic analysis, X-ray diffraction analysis, Microstructure, Hardness, Fracture (Mechanics), Lattices, Heat resistant alloys, Nickel, Chromium, Titanium, Aluminum, Alloys, Failure (Mechanics).

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- II. Samgin, A. A.
- III. Snetkov, A. Y.
- IV. DSIR LLU M.3218
- V. International Nickel Co. (Mond) Ltd. (Gr. Brit.)

Office of Technical Services

principal alloying elements in this nickel-base alloy was as follows: 19.5 Cr, 2.2-2.7 Ti and 0.55-0.7% Al. The impurity contents (C, Si, Mn, Fe, S and B) were in conformity with standard specifications. The surface layer of a turbine blade consists of the following successive layers: a recrystallised, fine-grained layer; a work-hardened layer characterised by increased values of hardness and solid-solution lattice constant; and an unstrained layer. The concentration of alloying elements in the surface layer is substantially different from the mean composition of the alloy. The harmful effect of surface work-hardening on heat resistance is linked with the development of high temperature of a large dimensional gradient of the solid-

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